

# SEQUENCE LISTING

<110> Gentz et al.

<120> Keratinocyte Growth Factor-2 Formulations

<130> PF402C1D1

<150> 09/853,666

<151> 2001-05-14

<150> 09/218,444

<151> 1998-12-22

<150> 60/068,493

<151> 1997-12-22

<160> 33

<170> PatentIn Ver. 3.1

<210> 1

<211> 627

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (1)..(624)

<400> 1

atg tgg aaa tgg ata ctg aca cat tgt gcc tca gcc ttt ccc cac ctg	48
Met Trp Lys Trp Ile Leu Thr His Cys Ala Ser Ala Phe Pro His Leu	
1 5 10 15	
ccc ggc tgc tgc tgc tgc tgc ttt ttg ttg ctg ttc ttg gtg tct tcc	96
Pro Gly Cys Cys Cys Cys Phe Leu Leu Phe Leu Val Ser Ser	
20 25 30	
gtc cct gtc acc tgc caa gcc ctt ggt cag gac atg gtg tca cca gag	144
Val Pro Val Thr Cys Gln Ala Leu Gly Gln Asp Met Val Ser Pro Glu	
35 40 45	
gcc acc aac tct tct tcc tcc tcc ttc tcc tct cct tcc agc gcg gga	192
Ala Thr Asn Ser Ser Ser Ser Ser Phe Ser Ser Pro Ser Ser Ala Gly	
50 55 60	
agg cat gtg cgg agc tac aat cac ctt caa gga gat gtc cgc tgg aga	240
Arg His Val Arg Ser Tyr Asn His Leu Gln Gly Asp Val Arg Trp Arg	
65 70 75 80	
aag cta ttc tct ttc acc aag tac ttt ctc aag att gag aag aac ggg	288
Lys Leu Phe Ser Phe Thr Lys Tyr Phe Leu Lys Ile Glu Lys Asn Gly	
85 90 95	
aag gtc agc ggg acc aag aag gag aac tgc ccg tac agc atc ctg gag	336
Lys Val Ser Gly Thr Lys Lys Glu Asn Cys Pro Tyr Ser Ile Leu Glu	
100 105 110	
ata aca tca gta gaa atc gga gtt gtt gcc gtc aaa gcc att aac agc	384
Ile Thr Ser Val Glu Ile Gly Val Val Ala Val Lys Ala Ile Asn Ser	
115 120 125	
aac tat tac tta gcc atg aac aag aag ggg aaa ctc tat ggc tca aaa	432
Asn Tyr Tyr Leu Ala Met Asn Lys Lys Gly Lys Leu Tyr Gly Ser Lys	

130	135	140	
gaa ttt aac aat gac tgt aag ctg aag gag agg ata gag gaa aat gga			480
Glu Phe Asn Asn Asp Cys Lys Leu Lys Glu Arg Ile Glu Glu Asn Gly			
145	150	155	160
tac aat acc tat gca tca ttt aac tgg cag cat aat ggg agg caa atg			528
Tyr Asn Thr Tyr Ala Ser Phe Asn Trp Gln His Asn Gly Arg Gln Met			
	165	170	175
tat gtg gca ttg aat gga aaa gga gct cca agg aga gga cag aaa aca			576
Tyr Val Ala Leu Asn Gly Lys Gly Ala Pro Arg Arg Gly Gln Lys Thr			
	180	185	190
cga agg aaa aac acc tct gct cac ttt ctt cca atg gtg gta cac tca			624
Arg Arg Lys Asn Thr Ser Ala His Phe Leu Pro Met Val Val His Ser			
	195	200	205
tag			627

<210> 2  
 <211> 208  
 <212> PRT  
 <213> Homo sapiens

<400> 2  
 Met Trp Lys Trp Ile Leu Thr His Cys Ala Ser Ala Phe Pro His Leu  
 1 5 10 15  
 Pro Gly Cys Cys Cys Cys Phe Leu Leu Leu Phe Leu Val Ser Ser  
 20 25 30  
 Val Pro Val Thr Cys Gln Ala Leu Gly Gln Asp Met Val Ser Pro Glu  
 35 40 45  
 Ala Thr Asn Ser Ser Ser Ser Ser Phe Ser Ser Pro Ser Ser Ala Gly  
 50 55 60  
 Arg His Val Arg Ser Tyr Asn His Leu Gln Gly Asp Val Arg Trp Arg  
 65 70 75 80  
 Lys Leu Phe Ser Phe Thr Lys Tyr Phe Leu Lys Ile Glu Lys Asn Gly  
 85 90 95  
 Lys Val Ser Gly Thr Lys Lys Glu Asn Cys Pro Tyr Ser Ile Leu Glu  
 100 105 110  
 Ile Thr Ser Val Glu Ile Gly Val Val Ala Val Lys Ala Ile Asn Ser  
 115 120 125  
 Asn Tyr Tyr Leu Ala Met Asn Lys Lys Gly Lys Leu Tyr Gly Ser Lys  
 130 135 140  
 Glu Phe Asn Asn Asp Cys Lys Leu Lys Glu Arg Ile Glu Glu Asn Gly  
 145 150 155 160  
 Tyr Asn Thr Tyr Ala Ser Phe Asn Trp Gln His Asn Gly Arg Gln Met  
 165 170 175  
 Tyr Val Ala Leu Asn Gly Lys Gly Ala Pro Arg Arg Gly Gln Lys Thr  
 180 185 190  
 Arg Arg Lys Asn Thr Ser Ala His Phe Leu Pro Met Val Val His Ser  
 195 200 205

<210> 3

<211> 35  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 3  
 ggaccctcat gacctgccag gctctggggtc aggac 35  
  
 <210> 4  
 <211> 28  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 4  
 ggacagccat ggctgggtcgt cacgttcg 28  
  
 <210> 5  
 <211> 29  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 5  
 ggacagccat ggttcgttgg cgtaaactg 29  
  
 <210> 6  
 <211> 31  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 6  
 ggacagccat ggaaaaaac ggtaaagttt c 31  
  
 <210> 7  
 <211> 29  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 7  
 ggacccccat ggagaactgc ccgtagagc 29  
  
 <210> 8  
 <211> 32  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 8  
 ggacccccat ggtcaaagcc attaacagca ac 32  
  
 <210> 9  
 <211> 33  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 9  
 ggacccccat ggggaaactc tatgggtcaa aag 33  
  
 <210> 10  
 <211> 37  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 10

ctgcccgaagc ttattatgag tgtaccacca ttggaag

37

<210> 11

<211> 36

<212> DNA

<213> Homo sapiens

<400> 11

ctgcccgaagc ttattacttc agcttacagt cattgt

36

<210> 12

<211> 32

<212> DNA

<213> Homo sapiens

<400> 12

gcggcacatg tcttacaacc acctgcaggg tg

32

<210> 13

<211> 28

<212> DNA

<213> Homo sapiens

<400> 13

gggcccgaagc ttatgagtgt accaccat

28

<210> 14

<211> 36

<212> DNA

<213> Homo sapiens

<400> 14

ccggcggatc ccatatgtct tacaaccacc tgcagg

36

<210> 15

<211> 35

<212> DNA

<213> Homo sapiens

<400> 15

ccggcggtag cttattatga gtgtaccacc attgg

35

<210> 16

<211> 426

<212> DNA

<213> Homo sapiens

<400> 16

atgtcttaca accacctgca gggtagcgtt cggtggcgta aactgttctc tttcaccaaa 60

tacttcctga aaatcgaaaa aaacggtaaa gtttctggga ccaagaagga gaactgcccc 120

tacagcatcc tggagataac atcagtagaa atcggagttg ttgccgtcaa agccattaac 180

agcaactatt acttagccat gaacaagaag gggaaactct atgggtcaaa agaatttaac 240

aatgactgta agctgaagga gaggatagag gaaaatggat acaataccta tgcattcattt 300

aactggcagc ataatgggag gcaaatgtat gtggcattga atggaaaagg agctccaagg 360

agaggacaga aaacacgaag gaaaaacacc tctgtcact ttcttccaat ggtggtacac 420

tcataa

426

<210> 17  
<211> 141  
<212> PRT  
<213> Homo sapiens

<400> 17  
Met Ser Tyr Asn His Leu Gln Gly Asp Val Arg Trp Arg Lys Leu Phe  
1 5 10 15  
Ser Phe Thr Lys Tyr Phe Leu Lys Ile Glu Lys Asn Gly Lys Val Ser  
20 25 30  
Gly Thr Lys Lys Glu Asn Cys Pro Tyr Ser Ile Leu Glu Ile Thr Ser  
35 40 45  
Val Glu Ile Gly Val Val Ala Val Lys Ala Ile Asn Ser Asn Tyr Tyr  
50 55 60  
Leu Ala Met Asn Lys Lys Gly Lys Leu Tyr Gly Ser Lys Glu Phe Asn  
65 70 75 80  
Asn Asp Cys Lys Leu Lys Glu Arg Ile Glu Glu Asn Gly Tyr Asn Thr  
85 90 95  
Tyr Ala Ser Phe Asn Trp Gln His Asn Gly Arg Gln Met Tyr Val Ala  
100 105 110  
Leu Asn Gly Lys Gly Ala Pro Arg Arg Gly Gln Lys Thr Arg Arg Lys  
115 120 125  
Asn Thr Ser Ala His Phe Leu Pro Met Val Val His Ser  
130 135 140

<210> 18  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 18  
caaccacctg caggggtgacg 20

<210> 19  
<211> 78  
<212> DNA  
<213> Homo sapiens

<400> 19  
aacgggtcgac aaatgtatgt ggcactgaac ggtaaagggtg ctccacgtcg tggtcagaaa 60  
accggtcgta aaaacacc 78

<210> 20  
<211> 76  
<212> DNA  
<213> Homo sapiens

<400> 20  
gggccccaaagc ttaagagtgt accaccattg gcagaaagtg agcagagggtg tttttacgac 60  
gggttttctg accacg 76

<210> 21  
 <211> 23  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 21  
 gccacatata tttgtcgacc gtt 23  
  
 <210> 22  
 <211> 19  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 22  
 gggcccaagc ttaagagtg 19  
  
 <210> 23  
 <211> 23  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 23  
 gccacatata tttgtcgacc gtt 23  
  
 <210> 24  
 <211> 90  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 24  
 ctgcagggtg acgttcgttg gcgtaaactg ttctccttca ccaaatactt cctgaaaatc 60  
 gaaaaaaacg gtaaaagtttc tggtaccaag 90  
  
 <210> 25  
 <211> 90  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 25  
 agctttaaca gcaacaacac cgatttcaac ggaggtgatt tccaggatgg agtacgggca 60  
 gttttctttc ttggtaccag aaactttacc 90  
  
 <210> 26  
 <211> 90  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 26  
 ggtgttggtg ctgttaaagc tatcaactcc aactactacc tggctatgaa caagaaaggt 60  
 aaactgtacg gttccaaaga atttaacaac 90  
  
 <210> 27  
 <211> 100  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 27  
 gtcgaccgtt gtgctgccag ttgaaggaag cgtaggtggt gtaaccgttt tcttcgatac 60

gttctttcag tttacagtcg ttgttaaatt ctttgaacc 100

<210> 28  
<211> 25  
<212> DNA  
<213> Homo sapiens

<400> 28  
gcggcgtcga ccgttggtgct gccag 25

<210> 29  
<211> 26  
<212> DNA  
<213> Homo sapiens

<400> 29  
gcggcctgca gggtgacgtt cgttgg 26

<210> 30  
<211> 36  
<212> DNA  
<213> Homo sapiens

<400> 30  
ccggcggatc ccatatgtct tacaaccacc tgcagg 36

<210> 31  
<211> 34  
<212> DNA  
<213> Homo sapiens

<400> 31  
cgcgcgatat cttattaaga gtgtaccacc attg 34

<210> 32  
<211> 426  
<212> DNA  
<213> Homo sapiens

<400> 32  
atgtcttaca accacctgca gggtgacgtt cgttggcgta aactgttctc cttcaccaaa 60  
tacttcctga aaatcgaaaa aaacggtaaa gtttctggta ccaagaaaga aaactgcccg 120  
tactccatcc tggaaatcac ctccgttgaa atcgggtgttg ttgctgttaa agctatcaac 180  
tccaactact acctggctat gaacaagaaa ggtaaactgt acggttccaa agaatttaac 240  
aacgactgta aactgaaaga acgtatcgaa gaaaacgggtt acaacaccta cgcttccttc 300  
aactggcagc acaacggtcg acaaattgat gtggcactga acggtaaagg tgctccacgt 360  
cgtggtcaga aaaccgctcg taaaaacacc tctgctcact ttctgccaat ggtggtacac 420  
tcttaa 426

<210> 33  
<211> 141  
<212> PRT  
<213> Homo sapiens

<400> 33

Met	Ser	Tyr	Asn	His	Leu	Gln	Gly	Asp	Val	Arg	Trp	Arg	Lys	Leu	Phe
1				5					10					15	
Ser	Phe	Thr	Lys	Tyr	Phe	Leu	Lys	Ile	Glu	Lys	Asn	Gly	Lys	Val	Ser
			20					25					30		
Gly	Thr	Lys	Lys	Glu	Asn	Cys	Pro	Tyr	Ser	Ile	Leu	Glu	Ile	Thr	Ser
		35					40					45			
Val	Glu	Ile	Gly	Val	Val	Ala	Val	Lys	Ala	Ile	Asn	Ser	Asn	Tyr	Tyr
	50					55					60				
Leu	Ala	Met	Asn	Lys	Lys	Gly	Lys	Leu	Tyr	Gly	Ser	Lys	Glu	Phe	Asn
65					70					75					80
Asn	Asp	Cys	Lys	Leu	Lys	Glu	Arg	Ile	Glu	Glu	Asn	Gly	Tyr	Asn	Thr
				85					90					95	
Tyr	Ala	Ser	Phe	Asn	Trp	Gln	His	Asn	Gly	Arg	Gln	Met	Tyr	Val	Ala
			100					105					110		
Leu	Asn	Gly	Lys	Gly	Ala	Pro	Arg	Arg	Gly	Gln	Lys	Thr	Arg	Arg	Lys
		115					120					125			
Asn	Thr	Ser	Ala	His	Phe	Leu	Pro	Met	Val	Val	His	Ser			
130						135					140				